AMENDMENTS TO THE CLAIMS

Please amend the claims as indicated in the following listing of all claims:

- (Currently Amended) An integrated circuit receiving command information over 1. a plurality of bit times, comprising:
 - a command queue storing command information received into the integrated circuit during consecutive bit times; and
 - control logic responsive to a cancellation indication in the command information, indicating that a command is canceled, to repoint a write pointer to point to the canceled command already stored in the command queue; and
 - wherein the command queue includes a plurality of FIFO buffers, each of the FIFO buffers storing a segment of a received command and wherein a plurality of write pointers point to locations in respective FIFO buffers to store a next command segment, and wherein segments of a command in different FIFO buffers are received at different bit times.
- 2. (Original) The integrated circuit as recited in claim 1 wherein the command is a speculative read operation.
 - 3. (Cancelled)

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- 4. (Currently Amended) The integrated circuit as recited in claim 3 claim 1 wherein a last FIFO storing a last command segment received during a last bit time for the command information is written to store a last portion of the command.
- 5. (Original) The integrated circuit as recited in claim 4 wherein the indication to cancel the current command is in the last command segment.
- 6. (Original) The integrated circuit as recited in claim 4 wherein each of the plurality of FIFOs has its respective write pointer decremented in consecutive clock intervals.

- 7. (Original) The integrated circuit as recited in claim 1 further comprising a content counter indicating a number of commands stored in the command buffer.
- 8. (Original) The integrated circuit as recited in claim 7 wherein the content counter is decremented as a result of the cancellation indication.
- 9. (Currently Amended) A method for storing command information into a command queue in an integrated circuit, comprising:

receiving a plurality of command segments corresponding to one command in a plurality of phases, each command segment being received in a different phase; pushing received command segments into a command queue; checking for a cancellation indication for the command being received; in response to the cancellation indication, performing an undo-push operation to remove the command segments stored in the command queue associated with the cancelled command; and

wherein the command queue includes a plurality of FIFO buffers, each of the FIFO

buffers storing respective command segments of a command received in a

different bit time and wherein a plurality of write pointers point to locations in
respective FIFO buffers to store a next command segment.

- 10. (Cancelled)
- 11. (Currently Amended) The method as recited in elaim 10 claim 9 wherein the undo push operation includes decrementing the plurality of write pointers.
- 12. (Original) The method as recited in claim 9 wherein further comprising writing a last command segment into a last FIFO buffer, the last command segment including the cancellation indication.
- 13. (Original) The method as recited in claim 9 wherein the cancelled command is a speculative read command.

- 14. (Original) The method as recited in claim 13 wherein the cancellation indication is a read valid bit indicating that the speculative read command is not valid.
- 15. (Currently Amended) The method as recited in claim 10 claim 9 wherein the plurality of write pointers are decremented consecutively.
- 16. (Original) The method as recited in claim 15 wherein the undo push operation is started within one clock of receipt of the cancellation indication.
- 17. (Original) The method as recited in claim 9 further comprising maintaining a count of a number of commands currently in the command buffer.
- 18. (Original) The method as recited in claim 17 further comprising decrementing the count in response to the cancellation indication.
 - (Currently amended) A computer system comprising: a processor;
 - an integrated circuit coupled to receive a command from the processor over a command channel, the command being received in command segments at corresponding different times;
 - a command queue in the integrated circuit coupled to receive the command segments, wherein the command queue includes a plurality of FIFO buffers, each of the FIFO buffers storing respective command segments of a command received in a different bit time and wherein a plurality of write pointers point to locations in respective FIFO buffers to store a next command segment; and
 - control logic coupled the command queue and responsive to a cancellation indication in one of the command segments indicative that a current command is canceled to perform an undo-push operation such that a next received command is placed in the command queue in a same location as the current command.

20. (Original) The computer system as recited in claim 19 wherein the integrated circuit includes a count of a number of commands in the command queue and wherein the count is decremented in response to the cancellation indication.